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Patents, P.O. Box 1450, Alexandria, VA, on October 7,

2005

Elena M. Cuthbertson  
ELENA M. CUTHBERTSON

**PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF  
MOTOHIRO YAMAHARA, ET AL.

DOCKET NO.: SHARP-1

SERIAL NO.: 10/521,846

EXAMINER: UNKNOWN

FILED: JANUARY 18, 2005

ART UNIT: UNKNOWN

TITLE: DENDRITIC AND ELECTRONIC DEVICE ELEMENT EMPLOYING THE  
SAME

WILMINGTON, DE

DATE: October 7, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the  
requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the  
above identified application, the applicants note and enclose a copy of each of the  
following references and the English translations of the abstracts:

Yamamoto, et al.	Japanese Patent Application Laid-Open No.07-126616
Hitachi, Ltd	Japanese Patent Application Laid-Open No. 08-018125
Cambridge, et al.	Japanese Patent Application Laid-Open No. 10-092576
Mitsubishi	Japanese Patent Application Laid-Open No. 63-076378
Mitsubishi	Japanese Patent Application Laid-Open No. 2000-336171
Res Dev Corp.	Japanese Patent Application Laid-Open No. 04-133351

The PTO did not receive the following  
listed item(s) FOR, NPLS

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Applicant: Motohiro Yamahara, et al.  
Serial No.: 10/521,846  
Filing Date: January 18, 2005

Mitsubishi	Japanese Patent Application Laid-Open No. 05-110069
Matsushita	Japanese Patent Application Laid-Open No. 07-206599
Tosoh	Japanese Patent Application Laid-Open No. 10-310561
Stanley Elec.	Japanese Patent Application Laid-open No. 09-059355
Samuel, et al.	WO 1999/21935

*Synthesis, Light Emission, and Optical Limiting of Hyperbranched Poly[Phenylene-alt-(2,5-Thienylene)s]*, Luo, J. et al., Polymer Preprints, vol.42, no.2, 2001, pgs. 527-528, XP009020396.

*Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications*, Esfand, R., et al., Drug Discovery Today, Elsevier Science Ltd, GB, vol.6 no. 8, April 2001 (2001-04), pgs. 427-436, XP001029831 ISSN: 1359-6446.

*Pentacene-Based Organic Thin-film Transistors*, Yen-Yi Lin, IEEE Transactions on Electron Devices, vol. 44, No. 8 p. 1325 (1997).

*Electrically Conducting*, L.L. Miller, et al.; J. Am. Chemistry Society, vol. 119, p. 1005 (1997)

Masaaki Kakimoto, Chemistry, vol. 50, p. 608 (1995)

*Dendritic Macromolecules*, Masaaki Kakimoto, Kobunshi (High Polymers, Japan) vol. 47, p. 804 (1998)

*Convergent Dendrons and Dendrimers: from Synthesis to Applications*, Grayson and Frechet, Chemistry Rev. vol. 101, pgs 3819-3867 (2001)

Okada, Chemistry and Function of Dendrimers, IPC, p.25-29

*Starburst Molecules for Amorphous Molecular Materials*, Shirota, Kobata, and Noma, Chemistry Letters, p. 1145- 1148 (1989)

*Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides*. Miyaura and Suzuki, Yuki Gosei Kagaku Kyokai Shi (Journal of Synthetic Organic Chemistry, Japan), vol. 46, p. 848-860 (1988)

*Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds*, Miyaura and Suzuki, Chemistry Rev., vol. 95, pgs. 2457-2483 (1995)

Applicant: Motohiro Yamashita, et al.  
Serial No.: 10/521,846  
Filing Date: January 18, 2005

*Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles, 1995-1998.*, Suzuki, Journal of Organometallic Chemistry, vol. 576, pgs. 147-168 (1999)

A copy of PTO form 1449 is also enclosed.

Respectfully submitted,



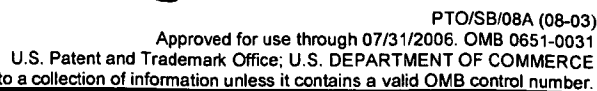
Donald W. Huntley  
Attorney for Applicants  
Registration No. 24,673  
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Enclosures

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PTO/SB/08A (08-03)  
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**Complete if Known**

*(Use as many sheets as necessary)*

Sheet	2
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of 2

Application Number

10/521.846
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Filing Date

January 18, 2005

**First Named Inventor**

Motohiro Yamahara

**Art Unit**

Examiner Name

Attorney Docket Number

Sharp-1

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
		JP-05-110069	04-30-1993	Mitsubishi Elec		
		JP-07-206599	08-08-1995	Matsushita Elec		
		JP-10-310561	11-24-1998	Tosoh Group		
		JP-09-059355	03-04-1997	Stanley Electri		
		WO 99/21935	05-06-1999	Isis Innovation		

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12/18/2008

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/521,846
Filing Date	January 18, 2005
First Named Inventor	Motohiro Yamahara
Art Unit	
Examiner Name	
Attorney Docket Number	Sharp-1

Sheet

1

of

2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		LUO, PENG, CHENG, ZHONG TANG, Synthesis, Light Emission, and Optical Limiting of Hyperbranched Poly[Phenylene-alt-(2,5-Thienylene)s], Polymer Preprints, 2001, p. 527-528.	
		ESFAND, TOMALIA, Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Drug Discovery Today, April 8, 2001,p.427-436, Vol. 6, No. 8	
		LIN, GUNDLACH, NELSON, JACKSON, Pentacene-Based Organic Thin-film Transistors, IEEE Transctions on Electron Devices, August 8, 1997, p1325-1331, Vol 44, No. 8.	
		MILLER, DUAN, TULLY, TOMALIA, Electrically Conducting Dendrimers, Journal American Chemistry Society,1997, p. 1005-1010, Vol.119, No. 5.	
		KAKIMOTO, Chemistry, 1995, p. 608-612, Vol. 50.	
		KAKIMOTO, Dendritic Macromolecules, Kobunshi High Polymers,1998, p.804-807, Vol. 47. Japan.	
		GRAYSON, FRECHET, Convergent Dendrons and Dendrimers from Syntheis to Application, Chemistry Rev, 2001, p. 3819-3867, Vol. 101, No. 12	
		Okada, Chemistry and Function of Dendrimers, p.25-29, IPC.	
		SHIROTA,KOBATA,NOMA, Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, 1989, p. 1145-1148.	
		MIYAURA, SUZUKI,Yuki Gosei Kagaku Kyokai Shi, Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, Journal of Synthetic Organ	

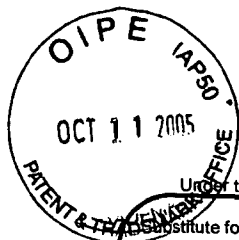
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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		Application Number	10/521,846
		Filing Date	January 18, 2005
		First Named Inventor	Motohiro Yamahara
		Art Unit	
		Examiner Name	
Sheet 2	of 2	Attorney Docket Number	Sharp-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MIYAURA, SUZUKI, Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chemistry Rev., 1995, p. 2457-2483, Vol 95, No. 7	
		SUZUKI, Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles 1995-1998, Journal of Organometallic Chemistry, 1999, pgs. 147-168	

Examiner Signature	/Duc Truong/	Date Considered	12/18/2008
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